

AUTOMOTIVE MAINTENANCE

SAINTS GLOBAL MEMBER

NAME: _____ BATTALION: _____ TROOP: _____

SKILL BADGE ADVISOR

NAME: _____ EMAIL: _____ PHONE: _____

STEP 1 | DISCOVER

INITIALS

- a) Explain the most likely hazards in automotive maintenance and demonstrate the safety practices that prevent injury or damage. _____
- b) Using a vehicle owner’s manual, explain the maintenance schedule, key warning indicators, and the purpose/limits of seatbelts and passive restraints. _____
- c) Explain the basics of vehicle registration and inspections in your state (safety/emissions as applicable), and summarize why compliance matters. _____
- d) Explain different motor types you may encounter (gasoline, diesel, hybrid, electric) and describe safety boundaries for high-voltage systems. _____

STEP 2 | PLAN

INITIALS

- a) Assemble an automotive maintenance kit and explain when each item is used for safety, inspection, or roadside readiness. _____
 - a.1) Identify PPE (eye protection, gloves) and where it is used _____
 - a.2) Identify basic hand tools (screwdriver, pliers, socket/wrench) _____
 - a.3) Identify roadside items (tire gauge, flashlight, reflective triangles, first aid kit) _____
 - a.4) Explain why the owner’s manual belongs in the kit _____
- b) Plan a preventive maintenance checklist for a specific vehicle using the owner’s manual, prioritizing safety-critical items. _____

STEP 3 | ACT

INITIALS

- a) Perform a full under-hood fluid and battery inspection on a vehicle and explain what each fluid does and what 'too low' could cause. _____
 - a.1) Check engine oil level and interpret the result _____
 - a.2) Check coolant level safely (cool engine) and identify correct coolant type from the manual _____
 - a.3) Check brake fluid, power steering (if applicable), washer fluid, and transmission fluid (if accessible per manual) _____
 - a.4) Inspect battery condition/terminals and explain safe handling _____

- b) Inspect belts, hoses, filters, and lights, then report findings with a simple recommendation list. _____
 - b.1) Check belts and hoses for cracks, fraying, leaks, or loose fit _____
 - b.2) Locate and check air filter(s) (engine/cabin if applicable) _____
 - b.3) Test interior and exterior lights and identify any failures _____
 - b.4) Explain one maintenance recommendation based on what you found _____

- c) Locate the fuse box(es), identify fuse types/sizes, and safely replace a fuse using the correct method (simulation or real burned-out fuse). _____
 - c.1) Use the manual diagram to locate fuse panels _____
 - c.2) Identify the correct fuse by label/position _____
 - c.3) Explain why the amperage rating must match _____
 - c.4) Demonstrate safe replacement procedure _____

- d) Perform a tire safety inspection, including pressure, tread, spare readiness, and disposal awareness, and explain alignment concepts at a high level. _____
 - d.1) Find vehicle tire pressure spec (door jamb/manual) and inflate to spec _____
 - d.2) Check spare tire readiness and required tools _____
 - d.3) Explain tread wear indicators and why alignment matters _____
 - d.4) Explain legal disposal options for old tires locally _____

- e) Demonstrate safe roadside readiness by performing one of the following, under adult supervision: (A) safe jumper-cable connection OR (B) correct jack placement and a tire change. _____
 - e.1) Explain the safety checks before starting (parking brake, stable ground, hazards) _____
 - e.2) Perform the chosen procedure safely and in correct order _____
 - e.3) Explain what could go wrong and how you prevented it _____

- f) Explain how brakes work (including ABS) and perform a basic brake condition check with a recommendation for next steps. _____
 - f.1) Explain disc vs drum at a high level _____
 - f.2) Identify symptoms of brake problems (feel, sound, warning light) _____
 - f.3) Perform a visual check where accessible (fluid level, visible pad/rotor if possible) _____
 - f.4) Make a safe recommendation (monitor, service soon, stop driving and inspect) _____

STEP 4 | REFLECT

INITIALS

- a) Explain how preventative maintenance reflects stewardship—of safety, money, and responsibility to others on the road—and identify one habit you will keep when caring for vehicles. _____

- b) Identify one career pathway in the automotive industry and describe what training, tools, and character strengths it requires. _____

Continue to next page for certification signature

END OF REQUIREMENTS

BY SIGNING BELOW, I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT ALL REQUIREMENTS WERE MET AT OR ABOVE THE REQUIRED STANDARDS AS OUTLINED IN THE BADGE REQUIREMENTS CHECKLIST.

SKILL BADGE ADVISOR

DATE (YYYY-MM-DD)